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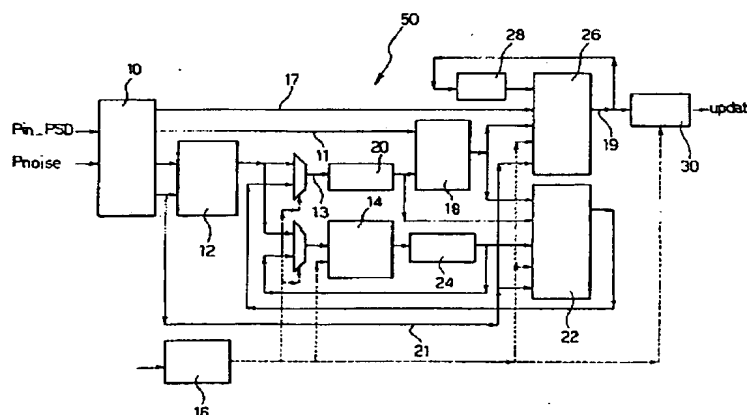
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(54) Title: METHOD AND CIRCUIT FOR NOISE ESTIMATION, RELATED FILTER, TERMINAL AND COMMUNICATION NETWORK USING SAME, AND COMPUTER PROGRAM PRODUCT THEREFOR



(57) Abstract: A filter such as a Wiener filter for noise reduction in a signal, such as a speech signal, affected by background noise includes a circuit (50) for determining values of an update function relating new value of estimated noise power ( $P_{noise-New}$ ) to a previous value of estimated noise power ( $P_{noise}$ ), the update function being a function of said previous estimated noise power ( $P_{noise}$ ) and a mean input power spectral density ( $P_{in\_PSD}$ ). The circuit (50) includes a look-up table (30) having values for the update function stored therein with the previous value of estimated noise power ( $P_{noise}$ ) and the mean input power spectral density ( $P_{in\_PSD}$ ) as a first and a second search entry, respectively. These search entries are entered via an input module (10) and exploited by search circuitry (12 to 28) associated with the look-up table (30) for selectively searching values for the update function in the look-up table (30). The search is preferably carried out on the basis of an index (26) computed starting from said first and second search entries.

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